Application of: Young-Hyeon Kwag

Serial No.: 10/531,971

Supplemental Amendment A

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph [0006], with the following amended paragraph:

[0006] The CJXSP 0201 is obtained by adapting Corynebacterium ammoniagenes KCCM 10340 as parent strain by spontaneous mutation method and selecting a mutant strain from them. The spontaneous mutation method is the following. 5mL of nutrient medium (glucose 20g/L, peptone 10g/L, yeast extract 10g/L, sodium chloride 2.5g/L, urea 3g/L, adenine 150mg/L, guanine 150mg/L, pH 7.2) was poured into a test tube having diameter of 18mm and sterilized under pressure according to the common methods. Then, Corynebacterium ammoniagenes KCCM 10340 was seeded into and it was cultured with shaking at 200rpm, 30°C for 18 hours and the resultant was used as seed culture. 50μℓ of the seed culture was seeded into 500mL-Erlenmeyer flask for shaking which had been sterilized and 40mL of minimum medium (glucose 20g/L, potassium phosphate monobasic 1g/L, potassium phosphate dibasic 1g/L, urea 2g/L, ammonium sulfate 3g/L, magnesium sulfate 1g/L, calcium chloride 100mg/L, ferrous sulfate 20mg/L, manganese sulfate 10mg/L, zinc sulfate 10mg/L, biotin 30µg/L, thiamine hydrochloride 0.1mg/L, copper sulfate 0.8mg/L, adenine 20mg/L, guanine 20mg/L, pH 7.2) had been added in. Then, it was cultured with shaking at 200rpm, 30°C for 24 hours, and when it reached to early log phase of growth, $50\mu\ell$ of the culture was seeded into another 500mL-Erlenmeyer flask for shaking in which 40mL of the minimum medium had been added. And when it reached to early log phase of growth (Optical Density 0.5 (λ =562nm)) again, $50\mu\ell$ of the culture was seeded into another 500mL-Erlenmeyer flask for shaking in which the minimum medium had been added again. Such a process, namely subculture was repeated 20 times. The final culture was streaked on petri-dish of the minimum medium containing 1.5% agar and was cultured in 30°C incubator until colony formed. Among the colonies, colonies showing rapid growth rate relatively were selected as superior mutant strain. And from them, a strain which shows superior 5'-xanthylic acid productivity and growth rate, was separated, named CJXSP 0201, and it was deposited under Budapest Treaty to the Korean Culture Center of Microorganisms whose address is Hongje-1-dong Seodaemun-gu, Seoul on November 21, 2002 with accession Number KCCM 10448. The time for colony forming is 38 hours in KCCM 10340, a known strain, while CJXSP of the invention 0201 takes 31 hours, therefore CJXSP is a mutant strain having character of superior growth.